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RubberWorld

The technical service magazine for the rubber industry

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December 1986

Coloring: rubber products

silicone elastomers

Contents

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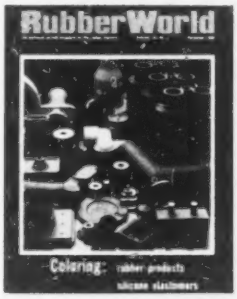
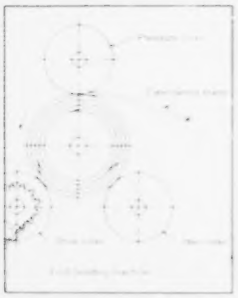
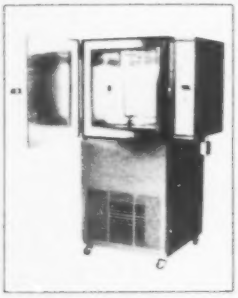


Coloring p. 20



Rollcovering p. 31



Techno Mart p. 44

5 Business Briefs

Acquisitions, expansions; contracts, licenses; financial statements; markets, news.

12 Tech Service: Foaming TPE

by Jon Menough, contributing technical service editor. With the use of Santoprene thermoplastic rubber, Monsanto has recently made possible a foamed rubber with many of the properties of traditional rubber compounds, yet which can be produced through more easily controlled processes.

16 Quality Management: Deadly sins 6 and 7

by David Crosby, Crosby & Co. This month's column looks at the lack of the use of training and statistical process control in producing a quality product.

18 Urethane Forum: Product liability reform

by Bill Stahr, Brad & Associates. A brief review of the Polyurethane Manufacturers Association's panel discussion on "Surviving the liability insurance crisis," held during the PMA's fall meeting.

20 The coloring of rubber products

by Thomas A. Geekie and Richard L. Silver, Akron Chemical Co. This article concentrates on the use of organic and inorganic pigment colorants and the rubber compounds in which they are used.

24 Compounding and coloring silicone elastomers

by John Razzano, General Electric. A brief overview of the general properties of siloxanes polymers and how the inherent properties of such polymers can be translated into rubber products with high performance properties is accompanied by a discussion of the coloring of silicone rubber compounds.

31 Rollcovering equipment, techniques and current problems

by J. Dean Armstrong, Jr., Roller Equipment Manufacturing Co. The author discusses some established methods of manufacture of rollcoverings, some new methods, problems associated with each, and some possible solutions.

36 Patent News

edited by Bob Samples, Akron Rubber Development

44 Techno Mart

New equipment, instruments, CAD/CAM, products and materials.

Departments

4	Editorial	41	Calendar	54	Literature
38	Meetings	53	Jobs & People	56	Ad Index

Cover

Cover courtesy of Central Rubber, a Woodhead Industries, Inc. company

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Business Briefs

Contracts, licenses

Hercules has appointed **Harwick Chemical** as its distributor for key peroxide and pentaerythritol products to the rubber industry in the 37 states east of the Rocky Mountains.

Unichema Chemicals announced that beginning January 1 it will assume responsibilities for marketing all glycerine produced by **Lever Brothers**.

BP Ventures announced that it has granted a worldwide manufacturing and sales license for its pigment Shieldex to **W.R. Grace & Co.**

MTS Systems and **Maschinenfabrik Mueller-Weingarten AG** have reached an agreement in principle on terms of extending their preliminary license to a permanent license. The license will cover the technology of process-controlled short stroke presses.

Jones & Vining and **Bata Industries, Limited** have mutually decided not to pursue further discussion relating to the acquisition by Jones & Vining of Bata's Cimtech Division.

Scandura North America has just signed a contract with **Pathex International Ltd.** for construction of the largest down acting belt press in the world.

Malaysian Rubber Research and Development Board has announced that sales and promotion of Novor urethane vulcanizing agents will be handled by the MRRDB's professional consulting service, **Rubber Consultants**.

Financial statements

American Biltrite reported net earnings of $1 million on sales of $29.3 million for the third quarter.

Armstrong Tire reported a 16 percent gain in sales through its independent dealer network for the fiscal year ending September 30.

Ausimont Compo N.V. reported third quarter net income of $8.1 million on net sales of $148.7 million.

BASF reported third quarter earnings before taxes of $966 million on sales of $13.9 billion.

Blasius Industries reported net earnings for the third quarter of $198,000 on sales of $10.9 million. Operating income for the year is $3.5 million on net sales of $41.9 million for 1986.

The **British Petroleum Company** reported a third quarter cost profit after tax of $511 million on earnings of $1.12 billion.

Cabot reported net income of $71 million for the year on net sales of $1.3 billion.

Carlisle has announced net earnings of $4.9 million on sales of $122.9 million for the third quarter.

Degussa AG announced a turnover amounting to $5.6 million DM in the second half of the business year, and a turnover for the whole of the business year of $10.8 million DM.

Goodall Rubber reported third quarter earnings of $169,000 before taxes on sales of $15.5 million.

Jones & Vining announced a net loss for the third quarter of $627,000 on sales of $4.7 million.

Lydall announced earnings for the third quarter of $314,000 on sales of $26.9 million.

NL Industries announced third quarter net loss of $27.9 million on sales of $308.2 million.

Park-Ohio Industries reported a net loss of $2.4 million in the third quarter on net sales of $30 million.

The **Royal Dutch/Shell Group of Companies** announced net income for the third quarter of $783,000 on net sales proceeds of $14.6 million.

Markets, news

Combined U.S. and Western European sales of sealing devices (o-rings, diaphragms, boots and bellows, static seals and gaskets, and dynamic oil, shaft and hydraulic/pneumatic seals) were approximately $2.4 billion in 1985, and will grow almost $3.0 billion in 1990 a multiclient market research study by Gabris International shows.

Total elastomer consumption (U.S. and Europe) will expand from 128,000 to more than 135,000 metric tons during the 1985 to 1990 period. Real elastomer sales values will increase from approximately $570 million to more than $650 million during this period, according to the study. Sales growth will largely result from substitution of low priced commodity products by higher performance specialties, blends and alloys.

The study also reports that noteworthy declines will be experienced by conventional nitriles, SBR, butyl and natural rubber, along with most chlorinated elastomers. Strong growth will be experienced by specialty nitriles, acrylics, urethanes, silicones, EP and fluoro-elastomers. Thermoplastic elastomer growth in sealing devices will be particularly strong at greater than 50% over the next five years, according to the study. The sealing device industries on

RMA tire report through September (figures in thousands of units)

Passenger tires	YTD 1986	YTD 1985	%change
Shipments			
Original equipment	41,396	41,705	-0.74
Radial	34,819	34,747	0.21
Replacement	107,642	106,043	1.51
Radial	92,768	85,329	8.72
Export	2,932	3,803	-22.90
Radial	2,248	3,002	-25.12
Total	151,970	151,551	0.28
Radial	129,835	123,078	5.49
Production	118,796	123,755	-4.01
Radial	100,395	98,554	1.87
Truck & bus tires			
Shipments			
Original equipment	5,236	5,877	-10.91
Radial	3,487	3,672	-5.04
Replacement	23,798	23,772	0.11
Radial	11,340	10,209	11.08
Export	988	1,006	-1.79
Radial	596	529	12.67
Total	30,022	30,655	-2.06
Radial	15,423	14,410	7.03
Production	22,985	26,558	-13.45
Radial	11,181	12,168	-8.11

Business Briefs

both sides of the Atlantic face a period of dramatic change.

Major concerns and issues, according to this study, range from material substitution dynamics and the need to upgrade performance in important end use segments, to uncertain major market segment prospects, and stronger competition from low cost, but improving quality imports.

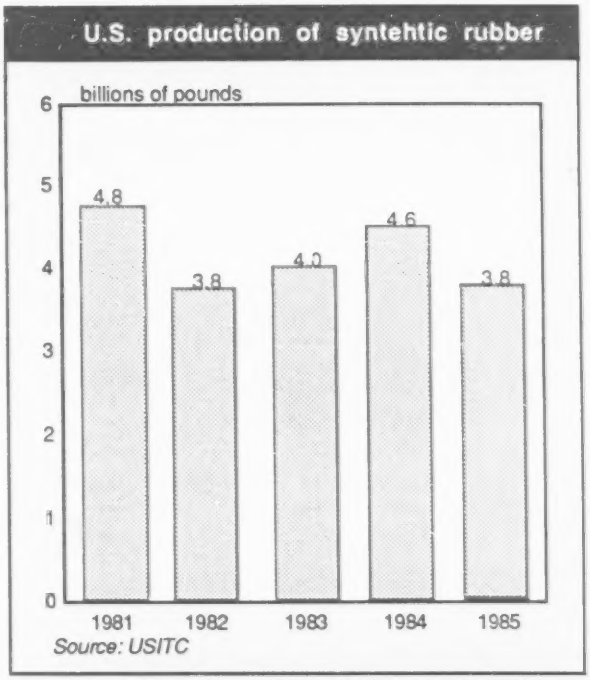
According to a report from the United States International Trade Commission, production of rubber-processing chemicals as a group in 1985 amounted to 260 million pounds, or 10 percent less than the 288 million pounds produced in 1984. Sales of rubber-processing chemicals in 1985 amounted to 174 million pounds, valued at $281 million, compared with 176 million pounds, valued at $287 million, in 1984.

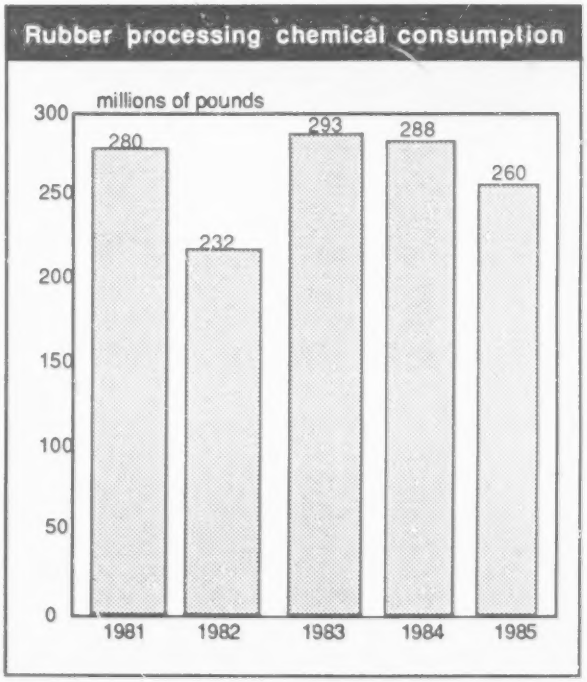
The production of cyclic rubber-processing chemicals in 1985 amounted to 237 million pounds, or 9 percent less than the 260 million pounds produced in 1984. Sales of cyclic rubber-processing chemicals in 1985 totaled 155 million pounds, valued at $258 million, compared with 154 million pounds, valued at $261 million, in 1984. Of the total production of cyclic rubber-processing chemicals in 1985, antioxidants, antiozonants, and stabilizers accounted for 67 percent, and accelerators, activators and vulcanizing agents for 29 percent. Production of antioxidants, antiozonants and stabilizers, which amounted to 160 million pounds in 1985, included 100 million pounds of amino compounds and 59 million pounds of phenolic and phosphite compounds. Sales of amino antioxidants, antiozonants and stabilizers in 1985 amounted to 71 million pounds, valued at $108 million; sales of phenolic and phosphite antioxidants, antiozonants and stabilizers were 34 million pounds, valued at $59 million.

Production of acyclic rubber-processing chemicals in 1985 amounted to 23 million pounds, or 18 percent less than the 28 million pounds produced in 1984. Sales in 1985 totaled 20 million pounds, valued at $22 million, compared with 22 million pounds, valued at $26 million, in 1984. Dithiocarbamic acid derivatives accounted for 30 percent of the production of acyclic rubber-processing chemicals in 1985.

Total U.S. production of synthetic rubber in 1985, according to the same USITC report amounted to 3.8 billion pounds, a decrease of 16.9 percent from that produced in 1984. The production of synthetic rubber declined irregularly from 4.8 billion pounds in 1981 to 3.8 billion pounds in 1985, or by 21.1 percent. Total sales of elastomers in 1985 amounted to 2.2 million pounds, a decrease of 17.1 percent from that sold in 1984.

Styrene-butadiene rubber in 1985 continued to be the elastomer produced in the greatest quantity as it has been for more than a quarter of a century. U.S. production of SBR-type rubber, including 11 million pounds of its vinylpyridine sub-type, amounted to 1.4 billion pounds in 1985. Solution polymerized butadiene rubber, a stereotype elastomer, was produced domestically in 1985 in the next largest amount - 600 million pounds. Other principal types of synthetic elastomers for which U.S. production data are reported separately are ethylene-propylene rubber, production of which was 440 million pounds in 1985; and butadiene-acrylonitrile (NBR-type) rubber, production of which was 118 million pounds.





Sales of SBR-type rubber by U.S. producers in 1985 amounted to 651 million pounds. Sales of solution polymerized butadiene rubber amounted to 268 million pounds, and those of ethylene-propylene rubber to 311 million pounds. Sales of NBR-type rubber in 1985 amounted to 104 million pounds.The rubber processing chemicals and synthetic rubber reports were part of the report entitled Synthetic Organic Chemicals. Production of all types decreased 2.6 percent in 1985